

MATSKO, S.N. [author]; YEFREMOV, V.V. [reviewer] (Moscow).

Remarks on S.N.Matsko's article "Enriching foods for public consumption with vitamins is the basic task of practical vitaminology." Vop.pit. 12 no.4:80-83 Jl-Ag '53.

(MLRA 6:10)

(Vitamins) (Matsko, S.N.)

YEFREMOV, V.V.

USSR.

/Effect of niacin avitaminosis on conditioned reflexes in dogs. V. V. Efremov, A. I. Makarychev, and A. N. Tikhomirova. (Inst. Nutrition, Acad. Med. Sci., U.S.S.R.) Moscow. *Voprosy Pitaniya* 13, No. 3, 10-15 (1954).—In dogs fed a niacin (I)- and tryptophan (II)-deficient diet (w corn diet contg. some II-free casein hydrolyzates) the amt. of *N*-methylnicotinamide (III) excreted with the urine decreased from 6-12 (control) to 1.2-0.3 mg./day. During the restoring therapy (addn. of I to the diet) the amt. of III excreted increased rapidly. The amts. of dipyradine nucleotides (IV) and proteins in blood did not change significantly (6-14 γ and 7.6-8.8 g./100 ml. blood, resp.) during the expt. The normal wt. was restored and the amt. of IV in blood was increased (up to 20 γ/100 ml. blood) after the exptl. dogs have received a 60-mg. dose of I. The avitaminosis was developed within 50-60 days of the feeding. During the avitaminosis the conditional reflexes were rapidly distorted; the disturbance of the higher nervous system (cerebral cortex) occurs much sooner than the appearance of the clinical symptoms of the avitaminosis. B. Wierzbicki.

YEFREMOV, V.V.

Discovery of vitamins by N.I. Iannin. Vop.pit. 13 no.5:3-11 S-0 '54.
(MILB 7:9)

1. Iz Instituta pitaniya AMN SSSR (Moskva).
(Iannin, Nikolai Ivanovich, 1853-1937) (Vitamins)

BUKIN, V.N., redaktor; YEFREMOV, V.V., redaktor; KOROL'KOV, S.I., redaktor;
KROTKOV, F.G., redaktor; LAVROV, B.A. redaktor; SINCHILO, K.K., tekhn.-
redaktor.

[Present-day problems of Soviet vitaminilogy; on the 100th anniversary
of the birth of N.I. Lunin, founder of vitaminology.] Sovremennye
voprosy sovetskoi vitaminologii; k 100-letiiu so dlia rozhdeniya
osnovopolozhnika ucheniya o vitaminakh N.I. Lunina. Moskva, Gos. izd-vo
med. lit-ry, 1955. 298 p. (MLRA 8:10)

1. Akademiya meditsinskikh nauk SSSR, Moscow.
(VITAMINS)

YEFREMOV, V.V.

Investigation of the vitamin requirement in man. Vop.pit. 14 no.2:
8-13 Mr-Ap '55. (MLRA 8:6)

1. Iz laboratorii izucheniya vitaminov (Zav. prof. V.V.Yefremov)
Instituta pitaniya AMN SSSR, Moskva.
(VITAMINS, metabolism,
requirement in man)

~~YEFREMOW, V.V.; KOSENKO, S.A.; MAKARYCHEV, A.I.; MASLENNIKOVA, Ye.M.;~~
~~TIKHOVSKAYA, A.H.~~

Effect of some vitamins B on the higher nervous activity. Vitaminy
no.2:40-60 '56. (MIRA 10:8)

1. Laboratoriya izucheniya vitaminov i laboratoriya vysshay
nervnoy deyatel'nosti Instituta pitaniya AMN SSSR, Moskva
(VITAMINS--B) (CEREBRAL CORTEX) (DEFICIENCY DISEASES)

YEFREM'OV, VV

✓ Present thus problems in medical vitaminology. V. V. Efrem'ov (Nutrition Inst., Acad. Med. Sci. U.S.S.R., Moscow). *Vestnik Akad. Med. Nauk S.S.R.* 11, No. 2, 46-58 (1956).—E. reviews the various recommended normal requirements of the vitamins and other clinical aspects of vitamin requirements and therapy. About 35 authors are cited, but references are not given. M. M. Piskur

YEFREMOV, V.V.; BERULOVA, I.T.

Liquidation of pellagra in Georgia. Vop.pit. 15 no.5:26-31 S-0 '56.
(MLR 9:11.)

1. Iz laboratorii izucheniya vitaminov (zav. - prof. V.V.Yefremov)
Instituta pitaniya AMN SSSR i kafedry obshchay gigiyeny (zav. -
prof. G.M.Natadze) Tbilisskogo meditsinskogo instituta.
(PELLAGRA, prevention and control,
in Russia (Rus))

USSR / Human and Animal Physiology (Normal and Pathological). Metabolism. Nutrition T

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97317

Author : Yefremov, V. V.

Inst : Not given

Title : On the Vitamin Need of Children

Orig Pub: Pediatriya, 1957, No 7, 80-83

Abstract: The standards of need of various vitamins for children of one to three months to teenage (16 to 20 years) are cited and a number of suggestions on vitaminization of food for children, particularly of school age, are given. --A. I. Titayev

Card 1/1

USSR/Human and Animal Physiology. Nervous System.
Higher Nervous System. Behavior.

T

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93649.

Author : Yefremov, V.V., Makarychev, A.I., Maslenikova, Ye. M.,
Tikhonirova, A.N.

Inst : Title : The Effect of Ariboflavinosis on Higher Nervous Activity
and Trophic Functions of the Organism.

Orig Pub: Vopr. pitaniya, 1957, 16, No 2, 37-44.

Abstract: In the presence of a diet insufficient in riboflavin (I), the excretion of I in urine was curtailed in dogs of strongly balanced and weakly inhibited types for several days, and in dogs of a strongly pronounced weak type this lasted 3 months. I deficiency reduced the positive acid defense salivary conditioned reflexes

Card : 1/2 Lab. izucheniya vitaminov i lab.
vysschey nervoy deystvi'nosti
Inst. pitaniya AMN SSSR, Moscow.

USSR/Human and Animal Physiology. Nervous System.
Higher Nervous System. Behavior.

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93649.

and improved differentiation in the 1st and 3rd type dogs, and produced a disorder in differentiation and a balanced phase in dogs of the weakly inhibited type. These disruptions were accompanied by eye affections, ulcers, leucopenia, hypochromic anemia of probable neurotrophic pathogenesis. The administration of I did not completely normalize higher nervous activity. -- R.M. Meshcherskiy.

Card : 2/2

YEFREMOV, V.V.

Eleventh session of the Institute of Nutrition of the Academy of
Medical Sciences of the U.S.S.R., dedicated to the problem of
studying nutrition of the population of the Soviet Union. Vop. pit.
16 no.3:73-80 My-Je '57. (MLR: 10:10)
(NUTRITION)

YEFREMOV, V.V., professor (Moskva)

Basic principles and trends in the therapeutic use of vitamins.
Sov.med. 21 no.1:70-76 Ja '57. (MLRA 10:6)
(VITAMINS, ther. use
review)

YEFREMOV, V.V., prof.

International symposium on vitamins, held in Berlin and
Potsdam-Rhebrucke (German Democratic Republic). West. AMN SSSR
13 no.11:76-79 '58
(MIRA 11:12)
(VITAMINS)

YEFREMOV, V.V.

Vitamin deficiencies and plans for their control in the U.S.S.R.
Vop. pit. 17 no.6:21-29 N-D '58. (MIRA 12:2)

1. Iz laboratorii isucheniya vitaminov (zav., - prof. V.V. Yefremov)
Instituta pitaniya ANN SSSR, Moskva.
(VITAMIN DEFICIENCIES, prov. & control,
in Russia (Rus))

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420002-5

YEFANOV, V. V.

"Effect of climatic geographic factors on the vitamin need of humans."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists
and Infectionists, 1959.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420002-5"

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420002-5

МАНУЧИХ, В. В., РЕВУЦКИЙ, Л. В.

"Control of cases of poliomyelitis morbidity in the Georgian SSR."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists
and Infectionists, 1959.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420002-5"

YEFREMOV, V.V., prof., red.; MASLENIKOVA, Ye.M., red.; ZUYEVA, N.K., tekhn.
red.

[Current information on the therapeutic use of vitamins] Sovremen-
nye dannye po lechebnomu primeneniiu vitaminov. Pod red. V.V.Efre-
mova. Moskva, Gos. izd-vo med. lit-ry Medgiz. 1960. 278 p.
(MIRA 14:7)

1. Vsesoyuznoye soveshchaniye po vitaminam. 4th, Moscow.
(VITAMIN THERAPY)

YEFREMOV, V.V. (Moskva)

Discussion on the study of human vitamin requirements. Vop. pit.
19 no.3:80-85 My-Je '60. (MIRA 14:3)
(VITAMINS)

YEFREMOV, Viktor V. (USSR)

"Role of Vitamins in dietotherapy of digestive diseases"

Paper presented at the Third International Congress of Dietetics,
London, 10-14 July 1961.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420002-5

YEFREMOV, V.V. (Moskva)

On human requirements of vitamin B6. Vop.pit. 20 no.3:82-88 My-
Je '61.
(MIRA 14:6)
(PYRIDOXINE)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420002-5"

YEFREMOV, V.V.

Hygienic requirements and methods for rational nutrition of the population in the Far North. Probl. Sev. no.6:103-111 '62.

1. Institut pitaniya AMN SSSR.
(RUSSIA, NORTHERN—NUTRITION)

(MIRA 16:8)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420002-5

YEFREMOV, V. V.

"Vitamin Requirements of Man and Indicators of their Assessment"

Report to be presented at Medical Society of J. E. PURKYNE, Czech,
Vitaminological Cong., Prague, Czech., 3-6 Jun 63

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420002-5"

V - 14

Influence of long-term introduction of vitamins into the ration on white rats, general condition and longevity. V. Y. TEREMOV, A. N. TIKHOMIROVA, E. M. MASLENKOVA, E. A. KRAJKO, O. I. PENAR and L. G. Gvozdova. Institute of Nutrition, A.M.S., Moscow, U.S.S.R.

In our observations, made on 400 white rats for about four years, we studied the influence of a complex of thirteen vitamins added to the ration of the animals since their weaning from females to their death. The rats were divided into groups which received additionally (a) vitamin complex (VC), (b) vitamin complex without vitamin E, (c) only vitamin B₁, (d) only vitamin B₂. We studied the influence of these additions on (1) the weight of body and its length. Animals receiving VC increased them faster. (2) The consumption of feed per 100 g. of body-weight by the rats receiving VC was, on the contrary, less. (3) Excretion of eight vitamins with urine and their content in organs. In urine the rats of the VC group of all ages had these indices higher than control animals. (4) Working capacity; the VC rats gnawed several times as much wood a day as animals of other groups. (5) Fertility and weight of litter; the number of litters from VC females, number of young rats in them, and their weight were greater than those from control rats. (6) The content of cholesterol in blood at the age of 1 year increased in all groups, but most of all in control group of rats. (7) The VC animals had a much lower morbidity and death-rates than control rats; the VC rats had the greatest duration of life of individual animals, that of animals which received B₁ and B₂ vitamins only was less, and rats of control group had the least longevity.

6th International Congress on Nutrition, Edinburg
9-15 August 1963

TIKHOIROVA, A.N.; YEFREMOV, V.V.; MASLENKOVA, Ye.M.

Study of the effect of supplementary inclusion of vitamins
in the diet on the general condition and longevity of white
rats. Vop. pit. 22 no.5:46-50 S-0 '63. (MIRA 17:1)

1. Iz ot dela vitaminologii (zav. - prof. V.V. Yefremov)
Instituta pitaniya AMN SSSR, Moskva.

YEFREMOV, V.V., prof., red.; BRUZH, T.A., red.

[Results of mass-vitaminization of industrial workers]
Opyt massovoi vitaminizatsii promyshlennyykh rabochikh.
Moskva, Meditsina, 1964. 108 p. (MIRA 17:8)

YEFREMOV, V.V.

Human vitamin requirements and indices for their study. Vest.
AMN SSSR 19 no.5:31-40 '64. (MIRA 18:3)

1. Institut pitaniya AMN SSSR, Moskva.

L 21794-66 EWT(1)/EM/A(h) GW

ACC NR: AP6002922

(N)

SOURCE CODE: UR/0286/65/000/024/0083/0083

AUTHORS: Naumenko-Bondarenko, I. I.; Gorin, V. P.; Usacheva, A. M.; Stepin, M. D.;
Yurkovetskiy, S. G.; Aksenov, M. Z.; Yefremov, V. V.; Kolentsev, A. M.; Baryshev,
Yu. M.; Lad'ina, V. M.; Fel'dman, Yu. S.

ORG: none

TITLE: A ground gravimeter Class 42, No. 177106

SOURCE: Byulleten' izobreteni i tovarnykh znakov, no. 24, 1965, 83

TOPIC TAGS: gravimetric analysis, measuring instrument, measurement accuracy
gravimeter

ABSTRACT: This Author Certificate presents a ground gravimeter containing a quartz elastic sensitive system, units of distance control and control of the rotation angle of a micrometric screw, and an assembly of a photoelectric device with an illuminator. The design increases the precision of the measurements and makes possible the determination of the errors of the distance transmission. The unit of distance control in the gravimeter has precision multiple-turn linear potentiometers interconnected in a bridge circuit. One of the potentiometers is mounted in the gravimeter and the other on a control panel. The rotors of these potentiometers are connected with a tachometer. To reduce the temperature effects on the quartz sensitive system, the latter system is insulated from the photoelectric device.

SUB CODE: 08/ SUBM DATE: 21Jan64

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UDC: 550.831

YEFREMOV, V. Ya.

✓ Application of labeled atoms to the study of complex reactions. VI. Oxidation of propane in the presence of Cr^{18}O and $\text{CH}_3\text{Cr}^{18}\text{O}_2$. M. B. Neiman, V. Ya. Efremov, N. E. Gordiyuk, and A. P. Lebedevskaya. Izdat. Akad. Nauk SSSR, Izd. Khim. Nauk 1959, 408-14; Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci. 1956, 307-103 (Eng. translation); cf. C.A. 50, 16535b, 51, 819a.—Data of specific activities α_{CO} and α_{AcII} as functions of time (t) during the course of oxidation of a mixt. contg. 48% C_3H_8 , 50.7% O_2 .

$P_t = 231$ mm. disclosed that α_{CO} decreased steadily but α_{AcII} initially increased, passed through a max., and finally decreased. At the max. of the α_{CO} vs. t plot, α_{CO} and α_{AcII} were correlated with the rates of formation of CO_2 from CO (w) and the total rate of formation of $\text{CO}_2(w)$ by the equation $w/w_1 = \alpha_{\text{CO}}/\alpha_{\text{CO}_2} \approx 28$. Thus only 3.4% of the total CO_2 was formed by oxidation of CO . These results agreed with previous work on the oxidation of $n\text{-C}_4\text{H}_10$ (C.A. 51, 819). Data of pressure changes (Δp) as a function of t during the course of oxidation of a mixt. contg. 48.87% C_3H_8 , 50% O_2 , and 1.13% $\text{CH}_3\text{Cr}^{18}\text{O}_2$ at 315° and $P_t = 243$ mm. disclosed the existence of an induction period, and of 4 cold-flame regions of short duration followed by a slow decrease of ρ . Measurements of the concn. of AcII (x) and of the specific activity α_{AcII} as functions of time disclosed that the decrease of α_{AcII} was much slower than the increase of x . Thus, the AcII formed was concurrently consumed to yield other oxidation products. Calculs. based on the reported exptl. results and in part on formulas previously derived (Neiman, C.A. 49, 13748c) showed that the rates of formation and consumption of AcII exhibited sharp max. in the region of cold flames, and that 50% CO_2 and

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Inst. Phys. Chem. ANUSSR.

Leiman, M. B., Efremov, V. Ya..

30% CO were formed from the carbonyl group of AcOH
Oxidation experiments performed in a 25-mm glass reaction
vessel of 4 ml volume connected to a vacuum line of the
specified construction. Preparation was carried out by
dehydration of is-PrOH in the presence of Cu²⁺ and CHC₂H₅O
cf. 51, 89. Reaction time 45 min. and methods
for the separation of products and their identification
are given in 51.

TOOK PLACE.

DM

YEFREMOV, V Ya.

30-2-40/49

AUTHOR: Rodin, S. S.

TITLE: The Use of Radioactive Isotopes in Analytical Chemistry
(Применение радиоактивных изотопов в аналитической химии).
Conference in Moscow (Конференция в Москве)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, , Nr 2, pp 100-110
(USSR)

ABSTRACT: This conference took place from December 2 to December 4, 1957.
It was called by the Commission for Analytical Chemistry of
the Institute for Geochemistry and Analytical Chemistry imeni
V.I. Vernadskiy of the AN USSR. About 450 scientists from 40
cities of the USSR took part as well as some foreign scien-
tists: Shu Chuan-lyan, En Zhen-in, Lyu Tsin-i (China);
I. Kol'tgov (USA); G. Irving (Great Britain); R. Prskibl,
I. Kerbl, Ya. Malyy, I. Vodegnal, V. Bezdek (Czechoslovakia);
Yu. G. Minchevskiy (Poland); L. Erdei, A. Schner (Hungary);
L. S. Tutundzhich, M. V. Shushich (Yugoslavia); N. I. Petrov
(Bulgaria); K. Dragulesku (Roumania);
Some reports dealt with the working out of radioisotopic meth-

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The Use of Radioactive Isotopes in Analytical Chemistry. Conference in
Moscow

ods of analysis:

- 1) I. P. Alimarin reported on the method of diluting isotopes (the Nb⁹⁵, Zr⁹⁵, and Ta¹⁸² radioisotopes were used);
- 2) M. B. Neyman, V. Ya. Yefremov, V. N. Panfiliv reported on the determination of the alcohol content in the oxidation products of propylene and butane (C¹⁴ was used);
- 3) G. S. Rozhavskiy, I. Ye. Zimakov reported on the method of repeated radioactive dilution for the determination of small admixtures (of the order of 10⁻⁴ to 10⁻⁷ %);
- 4) A. I. Kulak reported on the determination of the quantity of micro admixtures of nickel, cobalt, copper, tellurium, and antimony;
- 5) V. B. Gaydadymov, L. I. Il'ina reported on the possibility of analyzing tantalum-niobium alloy samples in different physical states by the reflection of rays;
- 6) I. Ye. Starik reported on the method of the perfect separation of micro quantities of uranium from weighable quantities of iron by means of the isotope U²³³;
- 7) V. I. Kuznetsov, T. G. Akimov recommended a method for precipitating uranium;

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The Use of Radioactive Isotopes in Analytical Chemistry. Conference in
Moscow

- 8) Professor Irving reported on the determination of indium by radioactivation analysis in rocks and minerals;
- 9) K. B. Yatsimirskiy reported on the determination of phosphate, sulfate and molybdate;
- 10) K. V. Troitskiy described two new methods of the determination of metal traces;
- 11) A. K. Lavrukhina reported on some peculiarities of radiochemical analysis;
- 12) I. M. Kol'tsof reported on the use of the radioactive isotope ThB(Pb²¹²) for the investigation of the aging of crystalline sediments;
- 13) M. M. Senyavin reported on the use of radioactive isotopes in chromatography;
- 14) A. M. Yermakov, V. K. Belyayeva, I. N. Marov showed the possibilities of using anionites for the calculation of the constants of the stability of charged ions;
- 15) N. A. Izmaylova, V. S. Chernyy gave data of the investigation of the solubility of salts;

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30-2-40/49

The Use of Radioactive Isotopes in Analytical Chemistry. Conference in Moscow

- 16) A. K. Lavrakhina, S. S. Rodin investigated the co-precipitation of francium with different sediments by the short-lived radioactive isotope Fr²¹²;
- 17) I. V. Tananayev showed the possibility of separating francium from cesium;
- 18) Yu. I. Bykovskaya, A. A. Grizik, N. I. Marunina investigated the use and the methodology of radioactive indicators;
- 19) M. I. Tsekhan'skiy, N. I. Shishkin, K. V. Khudoyarov and G. D. Susloparov described the use of Ca⁴⁵;
- 20) P. V. Zimakov, and L. A. Krasnousov described the use of Cl³⁶;
- 21) K. I. Karasev reported on the use of the marked-atom method.

AVAILABLE: Library of Congress

1. Isotopes (Radioactive)-Applications 2. Scientific research-Chemistry 3. Chemistry-USSR

Card 4/4

YEFREMOV, V.YA.; NEYMAN, M.B.; PANFILOV, V.N.

Determination of alcohols by isotopic dilution. Trudy kom.anal.
khim. 9:361-366 '58. (MIRA 11:11)
(Alcohols) (Radioactive tracers)

PURPOSE: The book is intended for chemists and chemical engineers concerned with work in analytical chemistry.

GOVERNING: The book is a collection of the principal papers presented in Moscow at the Second Conference on the Use of Radioactive Isotopes. The problems discussed at the conference included coprecipitation, aging, and solubility of precipitates, determination of the instability constants

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of complex compounds, separation of rare earth metals, and ion-exchange chromatography. No personalities are mentioned. There are 351 references 175 of which are Soviet, 33 German, 19 French, 8 Swedish, 11 Hungarian, and 2 Czech.

AUTHORS:

Yefremov, V.Ya., Popov, Ye.I.

TITLE:

An Apparatus for Washing Mercury
(Pribor dlya promyvaniya rtuti)

SOV/32-24-9-40/53

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 9, pp 1152-1153 (USSR)

Card 1/2

The apparatus recommended at present for washing mercury have some disadvantages. They employ, for instance, a technique that takes much time and where the operator is in contact with the mercury for a longer period of time. In the present paper an apparatus is described that operates according to the water - air lift effect. This way the mercury can be washed with water, acid- or alkaline solutions, and with several washing liquids at the same time. In this case the mercury passes each liquid separately according to the order desired. A diagram of the apparatus is given. It is mentioned that in the laboratory of the institute mentioned below some variables of such apparatus were devised. In the purification of larger quantities of mercury, for instance, the cascade variable of this apparatus is recommended. The diagram mentioned above represents a scrubber which at its lower end has two spherical mercury containers connected by a little tube at the side. By another thin tube the washing liquid is directed

An Apparatus for Washing Mercury

SOV/32-24-9-40/53

into the upper part of the scrubber, taking the non-purified mercury in small portions from the lower sphere. These small mercury quantities then sink through the washing liquid in the scrubber into the upper sphere. This process can be repeated until the mercury is purified. There is 1 figure.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR
(Institute of Chemical Physics, AS USSR)

Card 2/2

5(4)

05808

SOV/76-33-10-6/45

AUTHORS: Yefremov, V. Ya., Neyman, M. B., Panfilov, V. N.

TITLE: A Kinetic Method Based on the Use of Tagged Atoms for the
Investigation of Complex Chemical and Biochemical Processes.
VIII. Formation and Consumption of Methanol in the Oxidation of
Propylene

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 10, pp 2151-2155
(USSR)

ABSTRACT: In order to explain the part played by alcohols as intermediates
in the oxidation of hydrocarbons at low temperatures, the
authors investigated the behavior of methanol in propylene
oxidation. The presence of methanol in propylene oxidation has
already been found by A. F. Lukovnikov (Ref 2), it was, how-
ever, not quantitatively determined. Methanol was determined
here by the method of isotope dilution (Ref 5) (maximum error:
4-5%). The concentration of formaldehyde was determined polaro-
graphically (background: 0.1 n LiOH). Experiments were made un-
der static conditions with the following mixture: - 50% O₂,

Card 1/3 46.82% C₃H₆, 1.33% C¹⁴H₃OH, 1.59% CH₃CHO, 0.13% CO and 0.13% CO₂.

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SOV/76-33-10-6/45

A Kinetic Method Based on the Use of Tagged Atoms for the Investigation
of Complex Chemical and Biochemical Processes. VIII. Formation and Con-
sumption of Methanol in the Oxidation of Propylene

Temperature: 315°C, initial pressure: 245 mm Hg. Five cold flames were found after an induction period of 1'30". The variation in the concentration and the specific activity of methanol during the reaction (Fig 1) indicates that methanol is formed and also consumed. The latter is also indicative of the presence of radioactive carbon in formaldehyde, CO and CO₂. By graphic differentiation it was found (Fig 3) that the formation and consumption of methanol is most intense in the region of cold flames. Calculations of the rate of formaldehyde formation from methanol have shown that only a small part of formaldehyde was produced from methanol (Table 1), apparently no more than 5%. The scheme of reaction according to which methanol is formed only by acetaldehyde (Refs 8, 9) is insufficient since also other reactions take place which lead to the formation of methanol. There are 6 figures, 1 table, and 10 Soviet references.

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A Kinetic Method Based on the Use of Tagged Atoms for the Investigation
of Complex Chemical and Biochemical Processes. VIII. Formation and Con-
sumption of Methanol in the Oxidation of Propylene

ASSOCIATION: Akademiya nauk SSSR, Institut khimicheskoy fiziki
(Academy of Sciences of the USSR, Institute of Chemical Physics)

SUBMITTED: March 6, 1958

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S/195/60/001/003/003/013
B013/B058

AUTHORS: Neyman, M. B., Yefremov, V. Ya., Serdyuk, N. K.

TITLE: Formation Mechanism of Methyl Alcohol During the Oxidation of Hydrocarbons

PERIODICAL: Kinetika i kataliz, 1960, Vol. 1, No. 3, pp. 345 - 355

TEXT: In this paper the authors studied the formation of methyl alcohol during the oxidation of propylene. The aim of the study was to obtain material for the evaluation of some elementary reactions leading to the formation of CH_3OH and on their competition with reactions leading to the formation of other products. This became possible with the aid of the kinetic isotope method (Refs. 13, 14). The experiments were made with an equimolecular $\text{C}_3\text{H}_6 + \text{O}_2$ mixture at a pressure of 244 mm Hg and at 315°C . Small amounts of tagged acetaldehyde $\text{C}^{14}\text{H}_3\text{CHO}$ were added to the mixture in some experimental series. Small amounts of tagged azomethane were added in other experimental series. Propylene was oxidized in a similar

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Formation Mechanism of Methyl Alcohol
During the Oxidation of Hydrocarbons

S/195/60/001/003/003/013
B013/B058

installation as mentioned in Ref. 16. The analysis method was described in detail in Refs. 18 and 19. Since it was of utmost importance to determine the methane content and its specific activity, a special chromatographic installation was designed for this purpose (Fig. 1). The concentration of hydrogen, CO and methane could be determined with a hypothetical error of from 1 to 3%. The specific activity was determined by means of radiometric analysis. On the basis of data determined for the oxidation of propylene in the presence of $C_3^{14}H_3\text{CHO}$, the amount of methanol formed from acetaldehyde could be calculated by means of the kinetic isotope method. It was shown that about 75% methanol are formed from the methyl group of the acetaldehyde during the oxidation of propylene. $C_3^{14}H_3$ was determined during the oxidation of $C_3H_6 + O_2$ in the presence of $C_3^{14}H_3\text{NNC}^{14}H_3$. It results therefrom that azomethane can serve as source for the thermal formation of methyl radicals. It was shown that in $C_3H_6 + O_2$ mixture the methyl radicals cannot only react under formation of CH_4 , but also of

Card 2/4

Formation Mechanism of Methyl
Alcohol During the Oxidation of
Hydrocarbons

S/195/60/001/003/003/013
B013/B058

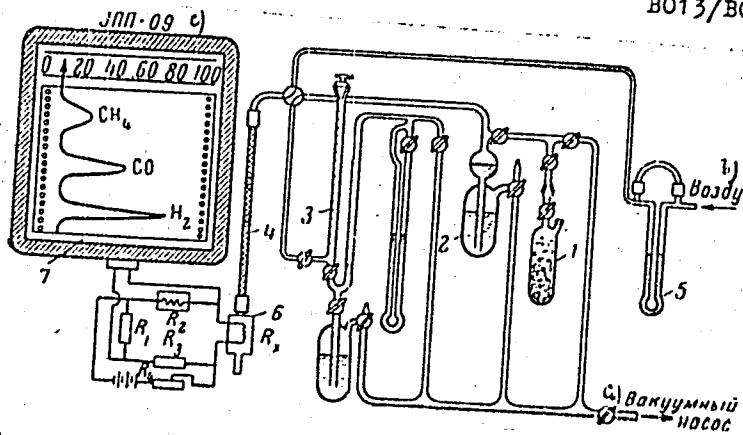
CH_2O , CH_3O , and CH_3CHO . It was further shown that the ratio of the rates of formation of CH_3OH and CH_2O grows larger with a more radical transformation of propylene. The ratio of the rates of formation of CH_4 and of oxygen-containing products from methyl radicals increases in the course of the reaction. This rule is presumably connected with the accumulation of aldehydes and other products having movable hydrogen, in the reaction solution. N. N. Semenov and V. Ya. Shtern are mentioned. There are 8 figures and 24 references: 15 Soviet, 5 US, 2 British, 1 Canadian, and 1 German.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AS USSR)

SUBMITTED: March 28, 1960

Card 3/4

S/195/60/001/003/003/013
B013/B058.



Legend to Fig. 1. 1) silica gel trap; 2) Tepler pump; 3) graduated burette; 4) chromatographic column; 5) flow meter; 6) detector for escaping gases; 7) electronic potentiometer. a) to the vacuum pump; b) air inlet; c) ЭПП-09 (EPP-09) recorder.

Card 4/4

YEFREMOV, V. Ya., Cand Chem Sci -- "Mechanism of the forma-
tion and ^{Consumption} expenditure of methyl alcohol ⁱⁿ during the oxidation
of propylene." Mos, 1961. (State Com of the ^{Council} Soviet of
Ministers USSR on Chem. Order of Labor Red Banner Sci-Res
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BURLAKOV, B.S., inzh.; GEYMAN, D.Ya., inzh.; GRZHIBOVSKIY, V.V., inzh.;
GUSEV, Yu.S., inzh.; YEFREMOV, V.Ye., inzh.; ZHURAVSKAYA, G.Ye.,
inzh.; KAGAN, V.G., inzh.; MALYSHEV, A.I., inzh.; PODREZOV, V.M.,
inzh.; SAPIRSHTEYN, V.E., inzh.; SHKARIN, Yu.P., inzh.; IGLITSYN,
I.L., red.; LARIONOV, G.Ye., tekhn.red.

[Adjustment of high-frequency communication and remote control
channels utilizing electric power transmission lines] Naladka
vysokochastotnykh kanalov sviazi i telemekhaniki po provodam linii
elektroperedachi. Moskva, Gos.energ.izd-vo, 1958. 236 p.

(MIRA 13:10)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii. Tekhni-
cheskoye upravleniye.
' (Remote control) (Telecommunication)

AUTHOR: Yefremov, V. Ye., Engineer SOV/105-58-10-27/28

TITLE: B.V.Smirnov "Service Telecommunications of Rural High-Tension Transmission Lines (B.V.Smirnov "Sluzhebnaya svyaz' po sel'skim vysokovol'tnym setyam")

PERIODICAL: Elektrichestvo, 1958, Nr 10, pp 95 - 95 (USSR)

ABSTRACT: This is a book review. The book covers problems of planning, of erection, and of conceptions bearing on the start of operation of rural service telecommunications. The book has 232 pages, it comprises 7 chapters. It was published by the Sel'khozgiz Publishing House in 1957. In this review, some minor inaccuracies and shortcomings are mentioned.

Card 1/1

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(Rural electrification) (Electric power distribution)

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[Measuring the levels of fluids and free-flowing materials
in municipal services] Izmerenie urovnei zhidkostei i sy-
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Preliminary results of the work of the first Mongolian Paleontological Expedition of the Academy of Sciences of the U.S.S.R. in 1946. Trudy Mong.kom. No. 38, 1949.

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KARLINSKAYA, M., kandidat tekhnicheskikh nauk, laureat Stalinskoy premii; MAG-
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LOV, M.A., doktor tekhnicheskikh nauk, professor, consultant.

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"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420002-5

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TSIPERMAN, L.Ya., inzhener, laureat Stalinskoy premii; YEFREMOV, Ye.A., inzhe-
ner, laureat Stalinskoy premii.

Remote measurements of the level of liquids in open reservoirs. Mekh. trud.
(MLRA 6:5)
rab. 7 no. 5:46-47 My '53.
(Telemeter)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962420002-5"

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GRITSKEVICH, I. A., Inzh. i, KARLINSKAYA, M. I., Laureat Stalinskoy Premii Kand.
Tekhn. Nauk., YEFREMOV, Ye. A., Inzh., NEKRASOV, K. A., Inzh.

Akademiya Komminal'nogo Khozyaystva IM. K. D. Pamfilova

Tsentralizovannye upravleniye magistral'nymi setyami gorodskikh vodoprovodov
Page 57

SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950. Moscow, 1951

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[Water level measurement for water supply systems] Izmerenie urovni v sistemakh vodosnabzheniya. moskva, Izd-vo Ministerstva komunal'nogo khoziaistva RSFSR. 1954. 98 p. (MLRA 7:7)
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4 no.5:26-28 '54. (MLRA 7:9)

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K.D.Pamfilova.
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The TU-1-AKKh water level meter. Zhil.-kom.khoz. 6 no.7:
26 '56.
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TUMANOV, P.A.

Automatic and remote control of underground installations in municipal
sewers. Gor. khoz. Mosk. 32 no.9:27-31 S '58. (MIRA 11:9)

1. Akademiya kommunal'nogo khozyaystva imeni K.D. Panfilova (for
Yefremov, TSikerman). 2. Glavnnyy inzhener Kontory ekspluatatsii
vodostokov i kollektorov (for Tumanov).
(Sewers, Concrete) (Remote control) (Automatic control)

Y.E. FRUMOV, Ye. I.
18(7); 6(7)

PHASE I BOOK EXPLOITATION SOV/2246

Zashchita podzemnykh metallicheskikh sooruzheniy ot korrozii; spravochnik. (Protection of Underground Metal Structures From Corrosion; Manual) Moscow, Izd-vo M-va kommunal'nogo khoz. RSFSR, 1959. 743 p. Errata slip inserted. 6,000 copies printed.

Ed.: N.I. Ryabtsev; Ed. of Publishing House: V.G. Akatova: Tech.
Ed.: Ye. S. Petrovskaya.

PURPOSE: This collection of articles is intended as a manual on corrosion protection of underground metal structures.

COVERAGE: The book is divided into four parts. The first part gives information on the characteristics of underground metal structures and sources of stray currents. The second part deals with the theory of soil corrosion of metals and the theory of corrosion of metals by stray current. The third part deals with the problem of combating leakage from sources of stray current, methods and devices for investigating corrosion and the fundamentals of planning corrosion prevention. The fourth part explains measures for preventing corrosion of underground metal structures and gives the basic operating principles of equipment involved. No personalities are mentioned. References follow

Card 1/26

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VIII. Behavior of insulation under conditions of electro-chemical protection (V.V. Krasnoyarskiy)	690
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Protection of Underground Metal (Cont.)

SOV/2246

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Nikol'skiy and L.D. Razumov) | 721 |
| 3. Method of thermal welding of a control conductor to
steel pipelines (Ye. A. Yefremov) | 726 |

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734

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Card 26/26

GO/ec
10-7-59

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TSIKANOVSKIY, V.A., red.; SOKOL'SKIY, I.P., red. TIEG-VAY LELYUKHIN,
A.A., tekhn.red.

[Servomechanisms used in automation of production processes in
municipal services] Ispolnitel'nye mekhanizmy dlia avtomatizatsii
proizvodstvennykh protsessov v kommunal'nom khoziaistve. Moskva,
Izd-vo M-va kommun.khoz.RSFSR, 1959. 100 p. (MIRA 12:12)
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Izv. vys. ucheb. zav.; tekhn.tekst.prom. no.2:100-105 '58.
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(Reels (Textile machinery))

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Effect of variable groove depth in the winding drum of the M-150
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tekhn. tekst. prom. no. 3:99-106 '58. (MIRA 11:7)

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Movement of the thread at the top of a reeling balloon in cone
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YEFREMOV, Ye.D., inzh.

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Effect of yarn friction in the twister groove on tension
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YEFREMOV, Ya.D.

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Differential equation of the motion of the winding point. Izv.vys.
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(Winding machinery) (Differential equations)

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Shape of the bobbin and the operative efficiency of winding. Izv.vyz.
ucheb.zav.;tekhn.tekst.prom. no.5:67-73 '60. (MIRA 13:11)

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Conditions of the passage of the thicker parts of the thread through
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Tensioning of a thread with nonuniform thickness by a disk
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Possibility of designing a winding mechanism according to the parameters of the thread winding on a cylindrical bobbin. Izv. vys.ucheb.zav.; tekhn.tekst.prom. no.6:78-88 '62. (MIRA 16:2)

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Movement of the winding point along the generatrix of the
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Motion of an elastic stretchable yarn with a uniform diameter through the tension device of the warper. Izv.vys.ucheb.zav.; tekhn.tekst. prem. no.3:72-76 '63. (MIRA 16:9)

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Thread laying movement in the winding of cone bobbins with a
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Ata, 1955. (Dissertation for the Degree of Candidate of Physicomathematical
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SO: Knizhnaya letopis', No. 4, Moscow, 1956

OVANESOV, G.P.; VITUGIN, P.I.; YEFREMOV, Ye.P.

Results of forced production of the layer D_{II} of the
Konstantinovskoye field. Geol. nefti i gaza 6 no.6:12-16
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Neftepromyslovoye upravleniye Oktyabr'skneft'.
(Bashkirie—Petroleum geology)

KUMANIN, Vladimir Vladimirovich, master sporta SSSR; YEFREMOV, Ye. V ,
red.; MUKHINA, Ye.S., tekhn. red.

[Airplane models with rubber motors] Modeli samoletov s rezino-
vymi dvigateliами. Moskva, Izd-vo DOSAAF, 1962. 92 p.
(MIRA 16:2)

(Airplanes--Models)

L = 27.42m² A = 1.05m² C = 1.05m² / EPT(1) / EFC(1) / EFC(2) / EFC(3) / EFC(4) / EFC(5) Re-5 DD

A FIGURE: Parachute, shroud line, canopy, Mutual, X, Z

TITLE: Parachute. Class 62, No. 171274

SOURCE: Byulleten fizicheskoy i tehnicheskoy radiotekhniki, no. 11, 1961, p. 11.

TOPIC TAGS: parachute, shroud line, canopy

ABSTRACT: An Author Certificate has been issued for a parachute with a canopy in the form of an umbrella having Fig. 1 of the Enclosure. The canopy is made of a single fabric, the outer surface of which is covered with a thin film of polyethylene. The surfaces of the canopy are held in a hemispherical shape by four mutually perpendicular shroud lines. (fig. art. has 11 figures)

ASSOCIATION: none

SUBMITTED: 04Jan55

ENCL: 01

SUB CODE: AC

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4040

Card 1/2

L 57744-65

ACCESSION NR: AP5016784

ENCLOSURE - 1

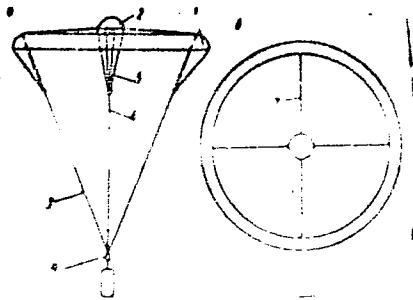


Fig. 1. Parachute

1 - Equatorial belt (annular hoop);
- small central hemispherical
assembly; - small shroud lines,
divided at the upper ends, * - eye
ring; 5 - auxiliary shroud lines
of the hemispherical canopy;
- central shroud line, ^ - para
shroud lines.

Shp
Card 2/2

L 40166-66 EWT(1) SCTB DD

ACC NR: AP6025681

SOURCE CODE: UR/0413/66/000/013/0147/0147

INVENTOR: Privalov, A. I.; Yefremov, Ye. T.; Petkua, G. V.; Korovochkin, Yu. N.;
Lavrov, G. D.; Barykin, L. N.; Korolev, A. A.; Rakhleyava, T. N.;
Nikonorov, B. I.; Stepner, B. P.; Vasil'yeva, V. S.

31
32

ORG: none

TITLE: Annular parachute. Class 62, No. 183608

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 147

TOPIC TAGS: parachute, cargo parachute

ABSTRACT: An Author Certificate has been issued for an annular supply parachute consisting of a main canopy with shroud lines leading from the lower rim and brought

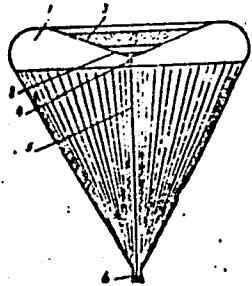


Fig. 1. Annular parachute

- 1 - Main canopy; 2 - auxiliary canopy;
- 3 - internal shroud lines; 4 - small eye ring;
- 5 - central strand; 6 - main eye ring.

Card

1/2

UDC: 629.13.01/06

L 40166-66

ACC NR: AP6025681

into an eye ring, and an auxiliary canopy placed inside the main canopy (see Fig. 1). To increase reliability and improve operational qualities, the auxiliary canopy in the form of a reversed cone is fastened to the main canopy's internal shroud lines, which are brought into a small eye ring connected to the main eye ring by a central strand. Orig. art. has: 1 figure. [WH]

SUB CODE: 01/ SUBM DATE: 03May65/ ATD PRESS: 5049

Card 212 P1LP

YEFREMOV, Yu.

USSR/Agriculture - Exhibitions

Card 1/1 Pub. 123 - 4/15

Authors : Yefremov, Yu., Assistant Director of the All-Union Farm-Product
Exhibition

Title : A treasure box of an advanced experience

Periodical : Vest. An Kaz. SSR 11/10, 42-48, Oct 1954

Abstract : An All-Union farm-product exhibition is described. It occupies
207 hectares on which 307 pavilions are erected. Table.

Institution :

Submitted :

PARIYSKAYA, L.V.; KOGAN, F.N.; KALACHEVA, A.P.; CHEREDNICHENKO, G.S..
Prinimali uchastiye: PASHNINA, V.I.; KOROBKOVA, T.N.; BURYAKOVA, G.I.; AGASHKINA, N.S.; ANTOKHINA, G.N.; ANUROVA, V.Ya.; BOBIHA, M.L.; YARMAKOVA, Z.P.; YEFREMOV, Yu.A.; POLUTSKAYA, L.G.; SHISHKINA, V.G.; LAPTIYEV, P.P., otv.red.; ROGOVSKAYA, Ye.G., red.; SERGEYEV, A.N., tekhn.red.

[Agroclimatic reference book on Chita Province] Agroklimatičeskii spravochnik po Chitinskoi oblasti. Leningrad, Gidrometeor.izd-vo, 1959. 131 p. (MIRA 13:2)

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YEFREMOV, YU. I.

1A149T2

USSR/ Astronomy - Galaxies

Numerical Concentra-
tion

Sep/Oct 49

"Frequency of Galaxies of Various Types," Yu. I.
Yefremov, State Astr Inst imen P. K. Shternberg,
2 pp

"Astron Zhur" Vol XXVI, No 5

Spiral galaxies possess considerably greater illuminati-
nation than elliptical ones, difference in their
absolute magnitudes being probably 4^m to 5^m . To
evaluate relation between number of elliptic and
spiral galaxies, one must assume galaxies are dis-
tributed uniformly in space. Knowing difference
149T2

USSR/Astronomy - Galaxies (Contd)

Sep/Oct 49

in absolute magnitudes and relation of linear
diameters of galaxies of various types, one can
calculate relative volumes of these galaxies.

149T2

KUKARKIN, B.V.; PAREVAGO, P.P.; YEFREMOV, Yu.I.; KHOLOPOV, P.N.

[Catalog of stars suspected of being variable, containing information on 5835 variable stars discovered but not assigned a definitive symbol before 1951, and on 2299 stars whose variability is dubious] Katalog zvezd, zapo-
dozrennykh v peremennosti; soderzhashchii svedeniia o 5835 peremennnykh
zvezdakh, otkrytykh i ne poluchivshikh okonchatel'nogo oboznacheniiie do
1951 goda, i o 2299 zvezdakh, peremennost' kotorykh sommitel'na. Moskva,
Izd-vo Akademii nauk SSSR, 1951. 239 p. (MLRA 6:7)

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P.K.Shternberga. (Stars, Variable--Catalogs)

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SQ} W-31128, 11 Jan 55

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